## National Transportation Safety Board NTSB ID: CHI98LA084 Aircraft Registration Number: N738FX FACTUAL REPORT Occurrence Date: 01/20/1998 Most Critical Injury: None Occurrence Type: Accident Investigated By: NTSB Location/Time Nearest City/Place State Zip Code Local Time Time Zone NE 68802 0725 CST **GRAND ISLAND** Distance From Landing Facility: 1 Direction From Airport: 130 Airport Proximity: On Airport Aircraft Information Summary Aircraft Manufacturer Model/Series Type of Aircraft Cessna 208B Airplane

Air Medical Transport Flight: No

## Narrative

Sightseeing Flight: No

Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:

On January 20, 1998, at 0725, central standard time (cst), a Cessna 208B, N738FX, operated by a commercial pilot, as Federal Express flight 8805, sustained substantial damage when on landing at Grand Island Airport, Nebraska, the airplane impacted hard on the runway and subsequently slid off the left side, approximately 1,500 feet down. Instrument meteorological conditions prevailed at the time of the accident. The flight was being conducted as on demand domestic air cargo service under 14 CFR Part 135. An IFR flight plan was on file. The pilot reported no injuries. The flight originated at Omaha, Nebraska, at 0640 cst, and was en route to Grand Island, Nebraska.

In his written statement, the pilot said that while in cruise flight between Omaha and Grand Island, he began to pick up moderate ice on the airplane at 4,000 feet mean sea level (msl). The pilot asked Minneapolis Air Route Traffic Control Center (ARTCC), if he could be assigned a higher altitude to get out of the icing conditions. Minneapolis ARTCC approved his request. The pilot said that the airplane reached an altitude of 6,700 feet msl, and would not climb any higher. He reported this to Minneapolis ARTCC, and requested the VOR/DME approach for runway 31 at Grand Island. The pilot maintained 6,500 feet msl until he was approximately 14 miles from the airport, at which time he turned onto the final approach course. The pilot maintained an airspeed between 125 and 140 knots on the approach. The airplane broke out of the overcast ceiling at 2,250 feet msl. When the airplane was over the runway, the pilot reduced the throttle from cruise power. The airplane began to drop. The pilot said that he added power, but it did not stop the sink rate. The airplane touched down hard on the runway. The pilot said that following touchdown, he had no braking capability. The pilot used full right rudder and engine power to stay on the runway. The airplane slowly veered to the left, departed the runway, and turned around 180 degrees in a field, before coming to a stop.

The Federal Aviation Administration (FAA) inspector who examined the wreckage, found the airplane, upright in the infield, between runways 31 and 35, approximately 1,500 feet from the approach end of runway 31. The airplane's nose gear strut was bent to the left. The left main landing gear was bent aft and to the left. The left engine mounts and firewall were bent upward. The left horizontal stabilizer and left elevator showed heavy skin buckling. The left propeller showed no damage. Flight control continuity was confirmed. No anomalies with the engine, engine controls, or other airplane systems were found.

The FAA inspector observed approximately 1 and 1/2 inches of clear ice adhering to the leading edges of the wings and empennage.

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TACIDAL REPORT			Gecurrence Bate. 01/20/1990											
AVIATION	urrence	е Туре:	Accident											
Landing Facility/Approach In	formation													
Airport Name	Airpoi	rt ID:	Airport Ele	ation	Rur	way Used	Runw	ay Length		Run	way Width			
CENTRAL NEBRASKA REGIONAL G					1846	t. MSI	_ 31		1		150	)		
Runway Surface Type: Concrete							-							
Runway Surface Condition: Ice Co	overed													
Type Instrument Approach: VOR/	DME													
VFR Approach/Landing: None														
Aircraft Information														
Aircraft Manufacturer				Model/	Series					Serial	Numb	er		
Cessna		208B						208E	30482					
Airworthiness Certificate(s): Norm	al													
Landing Gear Type: Tricycle														
Homebuilt Aircraft? No	Number of Seats	: 6		Certified Max Gross Wt.					) LBS	Numbe	er of E	ngine	s: 1	
Engine Type: E Turbo Prop					nufacturer:	Model/Series: PT-6A-114A			Rated Power: 675 HP					
- Aircraft Inspection Information														
Type of Last Inspection			Date	Date of Last Inspection Time Si				ince Last Insp		Airfra	me To	otal Time		
Annual			12/2	12/23/1997				41 Hours					1139 Hours	
- Emergency Locator Transmitter (	ELT) Information													
ELT Installed? Yes	ELT Opera	ated? No	0	ELT Aided in Locating Accident Sit						Site?	ite?			
Owner/Operator Information														
Registered Aircraft Owner		S	Street Address 3101 TCHULAHOMA ROAD											
FEDERAL EXPRESS CORPO	C	City State Zip Code									Zip Code			
											38118			
Operator of Aircraft	S	Street Address P. O. BOX 518												
BARON AVIATION SERVICES	С	City							Sta MO	ite	Zip Code 65580			
Operator Does Business As: FEDE	•	Operator Designator Code: FDEA							•					
- Type of U.S. Certificate(s) Held:														
Air Carrier Operating Certificate(s)	: Cargo; On-dem	nand Air	· Taxi											
Operating Certificate:			Operator Certificate:											
Regulation Flight Conducted Under: Part 135: Air Taxi & Commuter														
Type of Flight Operation Conducted	d: Unknown													

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AVIAT	ION		Occurren	ce Type: Acc									
First Pilot Information													
Name				City			State	Date of Birth	Age				
On File				1	On File			On File	On File	38			
Sex: M Seat Occupie	d: Left	Prii	ncipal Profes	Pilot	Certificate Number: On File								
Certificate(s): Flig	ht Instructor	Commerci	al										
Airplane Rating(s): Multi-engine Land; Single-engine Land													
Rotorcraft/Glider/LTA: None													
Instrument Rating(s): Airplane													
Instructor Rating(s): Airplane Multi-engine; Airplane Single-engine; Instrument Airplane													
Type Rating/Endorsement	for Accident/Ir	ncident Aircra	ft? Yes	С	urrent Bien	nial Flight Re	eview?						
Medical Cert.: Class 2	Medica	al Cert. Statu	s: Valid Me	dicalw/ wai	vers/lim.		Date of La	st Medical	Exam: 01/14/	1998			
- Flight Time Matrix	ht Time Matrix  All A/C  This Make and Model		Airplane Single Engine	Airplane Mult-Engine	Night	Instr Actual	ument Simulated	Rotorcra	ft Glider	Lighter Than Air			
Total Time	7500	7500 5000 6950 550		2450	660	115	5						
Pilot In Command(PIC)	7550	5000	6900	540	2447	660	115	5					
Instructor	1250		1250		50								
Last 90 Days	140	120	139	1	100	10	)						
Last 30 Days	50	40	49	1	35	4	<u> </u>						
Last 24 Hours	2	2	2		2								
Seatbelt Used? Yes	Shou	ılder Harness	Used? Yes		Toxico	oxicology Performed? No Second Pilot? No							
Flight Plan/Itinerary													
Type of Flight Plan Filed:	FR												
Departure Point					State	Airp	ort Identifier	Dep	arture Time	Time Zone			
ОМАНА					NE	OV	OMA		40	CST			
Destination					State	Air	ort Identifier			•			
Same as Accident/Incid	ent Location				GF								
Type of Clearance: IFR					•			•					
Type of Airspace: Class	D D												
Weather Information													
Source of Briefing: Flight	: Service Sta	tion											
Method of Briefing:													
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	Occ	Occurrence Type: Accident												
Weather	Information													
WOF ID	Observation Time	Time Zone WOF Elevation WOF Distance From Accide							dent Site		Direction From	m Accident Site	е	
GRI	0758	CST	18	346 Ft. N	MSL_				1 NM 130 Deg. Mag					
Sky/Lowes	st Cloud Condition: Unkn	iown					0 Ft. A	\GL	Condition of Light: Dawn					
Lowest Ce	eiling: Overcast		5	500 Ft. AGL			ility: 2.5		SM	Altimeter:		29.00	"Hg	
Temperatu	ure: -3 °C [		-4 °C Wind Direction: 80 Density Altitu							nsity Altitude:	336	Ft.		
Wind Spee	ed: 9		Weat	Weather Conditions at Accident Site: Instrument Conditions										
Visibility (F	RVR): 0 Ft.	Visibility	(RVV)	0	SM	Intensit	y of Precip	itation: I	Light					
Restrictions to Visibility: None														
Type of Pro	ecipitation: Freezing	Drizzle												
Accident	Information													
Aircraft Da	mage:	Airc	raft Fire:	:				Aircraft Exp	olosio	1				
Classificati	ion:													
- Injury Su	mmary Matrix	Fatal	Serious	Minor		None	TOTAL							
First Pi	ilot				$\perp$	1		1						
Second	d Pilot			L	$\perp$									
Studen	nt Pilot													
Flight I	nstructor													
Check	Pilot													
Flight E	Engineer													
Cabin A	Attendants				$\Box$									
Other 0	Crew													
Passer	ngers				$\neg$									
- TOTAL A	ABOARD -				$\top$	1		1						
Other C	Ground	0	0		0			0						
- GRAND	D TOTAL -	0	0		0	1		1						

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Investigator-In-Charge (IIC)

DAVID C. BOWLING

Additional Persons Participating in This Accident/Incident Investigation:

JIM SAZAMA FAA-LINCOLN MUNICIPAL AIRPORT LINCOLN, NE 68524